Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2008 8CEXH0912XAK		14.9	Diesel	PROCEDURE	CLASS 1	DDI, TC, CAC, ECM, EGR, OC, PTOX	EMD
	ENGINE'S IDLE NS CONTROL			ITIONAL IDLE EN	IISSIONS COI	NTROL 5	
	30g	Engine family 8	KBXL.719KCB-based A	PS exhausting	through the	after-treatment system of primary	engine.
ENGINE (L	-)		ENGINE MOD	ELS / CODES {ra	ted power, in	hp)	
14.9				nt for engine m			
' =not applic L≂liter: .hp≃	able; GVWR=gross vehicle v horsepower; kw=kilowatt; h	veight rating; 13 CCR	xyz=Title 13, California Code	of Regulations, Sect	on xyz; 40 CFI	R 86.abc=Title 40, Code of Federal Regulations	, Section 86.abc;
			d petroleum gas: E85=85% eti	nanol fuel: MF=mult	ituelaka RE	=bi fuel; DF≃dual fuel; FF=flexible fuel;	
. L/W/H H	DD=light/medium/heavy heav	y-duty diesel; UB≃urb	an bus; HDO=heavy duty Otto	ξ,			
op catalyst, TBI=throttle super charge çontrol modu	body fuel injection; SFVMFI= er; CAC=charge air cooler; E ule; EM=engine modification;	sequential/multi port fi :GR / EGR-C=exhausi 2 (prefix)=parallel; (;	ixidizer; HOZS/OZS=heated/o uel injection; DGI=direct gasoli : gas recirculation / cooled EGF 2) (suffix)≕n series;	rygen sensor; HAFt ne injection; GCAR R; PAIR/AIR=pulsec	S/AFS=heated/a B=gaseous car l/secondary air i	ctive calalytic reduction – urea / ammonia; W sir-fuel-ratio sensor (a.k.a., universat or linear o buretor; IDI/DDI≃indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM=	xygen sensor); TC/SC=lurbo/ engine/powertrain
ESS=eng per 13 CCF	gine shuldown system (per 13 R 1956.8(a)(6)(D); Exempt= e	CCR 1956.8(a)(6)(A) xempted per 13 CCR	(1): 30α=30 a/hr NOx (ner 13 i	j tuel systems; N/A	≂not apolicable	al combustion auxiliary power system; ALT=alli (e.g., Otto engines and vehicles);	ernative method

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со		PM		нсно	
	PTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	+	15.5	15.5	0.01	0.01	*	*
FEL	*	*	1.33	1.33	1.3	1.3	*	*	*	*	*	*
CERT	0.01	0.000	1.12	0.89	1.1	0.9	0.3	0.00	0.01	0.002	•	*
NTE	0.	21	2.	00	2	.0	19	9.4		.02		*

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: Engines in this engine family ("primary engines") may include the auxiliary power system (APS) described above for additional idle emissions control subject to the following stipulations. (A) Engine exhaust from the APS is routed directly into the exhaust system of the primary engine upstream of its diesel particulate matter aftertreatment device. And, (B) The manufacturer shall ensure that each primary engine so equipped with the APS is provided with an approved "Verified Clean APS" label to be affixed to the vehicle into which the primary engine is installed. The "Verified Clean APS" label shall conform to 13 CCR 2485(c)(3)(D) and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006.

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BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" and "Verified Clean APS" vehicle labels. The manufacturer has until June 30, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through June 30, 2008; engines produced after this date are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0472-1 dated March 5, 2008.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

_ day of June 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

Engine Famil	,	2.Engine Mode	J.BHP@RPM (SAE Gross)	4.Fuel Rate; mm/stroke @ peak HP (for dissel only)	5.Fuel Rate; (lbs/hr) @ peak HF (for discals only)	6.Turque @ RPM (SEA Gross)	7.Fuel Rate: सारा/Stroke@peak torque	B.Fuel Ra (Bulli)@peak	(orque(Ca)	Emilssie rice Per	n Centrol SAE J1930
BCEXH0912XA		ISX 435ST	435@1800	257	156	1750@1200	349	141	1701		, PCM,
8CEXH0912XA		ISX 435ST	435@1800	257	156	1650@1200	333	135	TC		POM,
8CEXH0912XAI		ISX 435ST	435@1800	257	156	1750@1200	349	141			РСМ,
8CEXH0912XA		JSX 435	435@1800	257	156	1550@1200	333	135		1	PCM
SCEXHODIZXAL		ISX 435	435@1800	257	156	1550@1200	311	126	EGR	1	PCM.
SCEXHODIZXAN		ISX 425ST	425@1800	252	153	1750@1200	349	141		PTOX	/
SCEXHOD12XAK		ISX 425ST	425@1800	252	153	1650@1200	333	135		_	<u> </u>
8CEXH0912XAK		ISX 425ST	425@1800	252	153	1750@1200	349	141		L	PCM,
8CEXH0912XAK		ISX 425	425 @ 1800	252	153	1660@1200	333	135		- 1 - f	РСМ,
8CEXH0912XAK		ISX 400ST	498@ 1800	245	149	1750@1200	349	141			PCM,
8CEXH0912XAK		ISX 400ST	408@1809	245	149	1650@1200	333	135		PTOX.	
BCEXH0912XAK		ISX 400ST	408 @ 1800	245	149	1750@1200	349	141	W Int	тах,	
SCENHOSISXAK		ISX 400ST	40 8@ 1800	245	149	1650@1200	333	135			
BCEXH0912XAK		ISX 400	425@1800	252	153	1450@1200	284	116		rok.	
CEXHO912XAK	1437;FR10658	TREBE XEI	408@1800	245	149	1550@1200	311	126		ΤΦX,	
CEXH0912XAK	1437;FR10667	ISX 385ST	408@1800	245	149	1550@1200	311	126		TOX	
CEXH0912XAK	1437;FR10646	ISX 435V	425@1800	252	153	1460@1200	284	116		TOX	
CEXH0912XAK	273Z;FR10647	ISX 435ST	435 @ 1800	257	158	1750@1200	349	141		TOX V	
CEXH0912XAK	2732;FR10667	ISX 435ST	435@1800	257	156	1650@1200	333			OX,	
CEXH0912XAK	2732;FR10664	ISX 435	435@1800	257	156	1650@1200	333	135		OX, F	
CEXH0912XAK	2732;FR 10665	ISX 435	435@1800	257	156	1550@1200	311	135		OX, F	
CEXH0912XAK	2732;FR10649	ISX 425ST	425@1800	252		1750@1200		126		TOX, P	
CEXH0912XAK	2732;FR10668	ISX 425ST	425@1800	252			349	141		OX, P	
CEXH0912XAK	2732;FR10651	ISX 425	425@1600	252		1650@1200	333	135		OX, P	
CEXH0912XAK	2732;FR10653	ISX 400ST	408@1800	245		1650@1200	333	135	P7	OX, P	cw.
CEXH0912XAK	2732;FR10654	ISX 400ST	408@1800	245		1750@1200	349	141	PJ	OX, P	CNI.
CEXH0912XAK	2732;FR10656		425@1800			1650@1200	333	135	P	OX, P	CM,
	2732 FR10658			252		450@1200	284	118	Р	QX, P	СМ,
		residence of the control of the cont	408@1800	245	149	550@1200	311	126	PT	OX P	M. (

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.8HP@RPM (SAE Gross)	4.Fuel Rate; mm/stroke @ peak HP (for diesel only)	5.Fual Raie: (lbe/hr) @ peak HP (for diesels only)	5.Torque @ RPM (SEA Gross)	7,Fuel Raie: mm/stroke@peak torque	6.Fuel Rate;	V.Emission Control Device Per SAE J1930
SCEXHODIZXAK	2732:FR10646	ISX 435V	425@1800	252	153	1450@1200	284	116	
UEXH0912XAK	2732;FR10690	ISX 450\$T	450@1800	255	155	1750@120D			PTOX, PCM,
CEXHD912XAK	2732;FR10691	ISX 450ST	450@1800	255	155		344	139	PTOX, FCM,
CEXH0912XAK	2732;FR10692	ISX 45D	450@1800			1650@1200	322	130	PTOX/PCM.
CEXHD912XAK	2732;FR10693			255	155	1650@1200	322	130	PTOX PCM.
	2732;FR10694		450@1800	255	155	1650 @ 1200	300	121	PTOX. RCM.
The state of the s	E. 051CE 10084	ISX 450	450@1800	255	155	1450@1200	275	113	РТОХ, РОМ,

DDI, PTOX, DC, CAC, TC, EGR, &CM

Attrotuca

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